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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-12-20-05**	**Date: 23-12-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.	
Address	:	Yelahanka Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01	
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.	
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-12-17	
Sample ID No	:	2017-12-20-05/04	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	20/12/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.83	100.37	1.247	4515	81.9	18.1	16.9	21.1
2	Cover Slab-2	75.57	100.25	1.228	4484	80.3	17.9	16.7	20.8
3	Cover Slab-3	75.38	100.48	1.184	4462	79.5	17.8	16.6	20.7

Note:

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-12-17

Lab ID	:	CP-2017-12-20-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town,
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-17
Sample ID No	:	2017-12-20-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.78	–
2	Finess by Air permeablity method (m^2/kg, Min)	283.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-01-18

Lab ID	:	CP-2017-12-20-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-17
Sample ID No	:	2017-12-20-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-12-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	40.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-20-05** **Date: 23-12-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-12-17
Sample ID No	:	2017-12-20-05/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	2847	2847	19.0	81.0	90-100
3	20 mm	4274	7121	47.5	52.5	30-70
4	10 mm	5375	12496	83.3	16.7	10-35
5	4.75 mm	1875	14371	95.8	4.2	0-5
6	Pan	629	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Date: 23-12-17

Lab ID	:	CP-2017-12-20-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-17
Sample ID No	:	2017-12-20-05/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-12-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	162	185	18.5	81.5	60-95	75-100	85-100	95-100
4	1.18 mm	263	448	44.8	55.2	30-70	55-90	75-100	90-100
5	600 micron	106	554	55.4	44.6	15-34	35-59	60-79	80-100
6	300 micron	193	747	74.7	25.3	5-20	8-30	12-40	15-50
7	150 micron	177	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/01/2018

Lab ID	:	CP-2018-01-01-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-03/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	02/01/2018	149.22 X 150.24 X 150.66	22419	8.212	399.1	17.8	17.7
2	Drain Concrete	M20	26/12/2017	02/01/2018	150.47 X 150.21 X 150.69	22602	8.274	409.1	18.1	
3	Drain Concrete	M20	26/12/2017	02/01/2018	150.22 X 150.47 X 150.24	22604	8.195	386.5	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/01/2018

Lab ID	:	CP-2018-01-01-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-03/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/12/2017	02/01/2018	149.21 X 149.33 X 150.22	22282	8.245	381.0	17.1	16.7
2	Drain Concrete	M20	26/12/2017	02/01/2018	149.65 X 150.27 X 150.44	22488	8.279	371.1	16.5	
3	Drain Concrete	M20	26/12/2017	02/01/2018	150.46 X 150.47 X 150.68	22640	8.282	371.3	16.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/01/2018

Lab ID	:	CP-2018-01-01-03
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Kerekodi road in Ward no.01
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A cross, A sector Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D) E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-03/06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	28/12/2017	04/01/2018	150.22 X 150.34 X 150.35	22584	8.244	413.3	18.3	18.2
2	Drain Concrete	M20	28/12/2017	04/01/2018	150.30 X 150.34 X 150.35	22596	8.345	418.0	18.5	
3	Drain Concrete	M20	28/12/2017	04/01/2018	150.37 X 150.38 X 150.39	22613	8.366	404.8	17.9	

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